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Prediction of the coding sequences of unidentified human genes. XXI. The complete sequences of 60 new cDNA clones from brain which code for large proteins.

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As an extension of a sequencing project of human cDNA clones which encode proteins of unidentified genes, we herein present the entire sequences of 60 cDNA clones for the genes named KIAA1879-KIAA1938. The cDNA clones were isolated from size-fractionated cDNA libraries derived from human fetal brain, adult whole brain and amygdala, and their protein-coding sequences were predicted. Thirty-cDNA clones entirely sequenced in this study were selected as cDNAs which had coding potentiality by in vitro transcription/translation experiments, and the remaining 23 cDNA clones were chosen by computer-assisted analysis of terminal sequences of cDNAs. The average sizes of the inserts and corresponding open reading frames of cDNA clones analyzed here were 4.5 kb and 2.2 kb (733 amino acid residues), respectively. Sequence analyses against the public databases enabled us to annotate the functions of the predicted products of the 25 genes; 84% of the predicted gene products (21 gene products) were classified into proteins related to cell signaling/communication, nucleic acid management, and cell structure/motility. In addition to the sequence information about these 60 genes, their expression profiles were also studied in some human tissues including brain regions by reverse transcription-coupled polymerase chain reaction, products of which were quantified by enzyme-linked immunosorbent assay.

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